

Utah Weekly Pertussis Update

2015 data, through MMWR week ending October 31, 2015 (MMWR week 43)

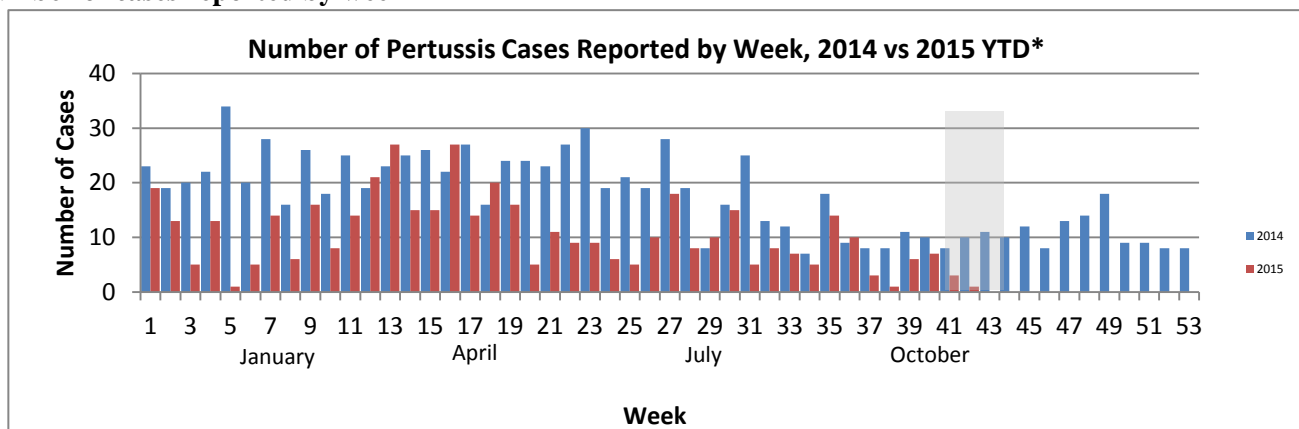
Data presented in this report are based on current data available and will be subject to change weekly.

Data Summary

Total number of cases reported, 2015 year-to-date (YTD)	445	Utah Incidence rate, 2015 year-to-date (YTD) per 100,000 person-years	18.4
Total number of cases reported 2014	926	Utah Incidence rate, 2014 per 100,000 person-years	31.9
Number of cases reported in past week	12	National Incidence rate, 2013 per 100,000 person-years (As of 11/12/2014) *Provisional	8.9
Total number of cases reported, through same time period 2014	817	2015 Hospitalizations	14
Age groups with the highest rates	<1 year	2015 Cases in infants <1 year	34
	1-4 year		

*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

Number of cases reported by week



*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

2015 Year-to-Date Incidence Rates, By Age

Age (years)	2015 Cases	2013 population	Rate*, **
<1	34	50,052	81.6
1-4	65	203,815	38.3
5-14	122	505,598	29.0
15-24	95	469,436	24.3
25-34	31	440,736	8.4
35-44	45	372,699	14.5
45-54	17	305,312	6.7
55-64	21	269,589	9.4
65+	15	283,635	6.3
Total	445	2,900,872	18.4

* Rate is calculated per 100,000 person years.

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

**2013 population estimate update as of 11/4/2014 rates may vary compared to previous reports.

School Age Incidence Rates, 2015 Year-to-Date

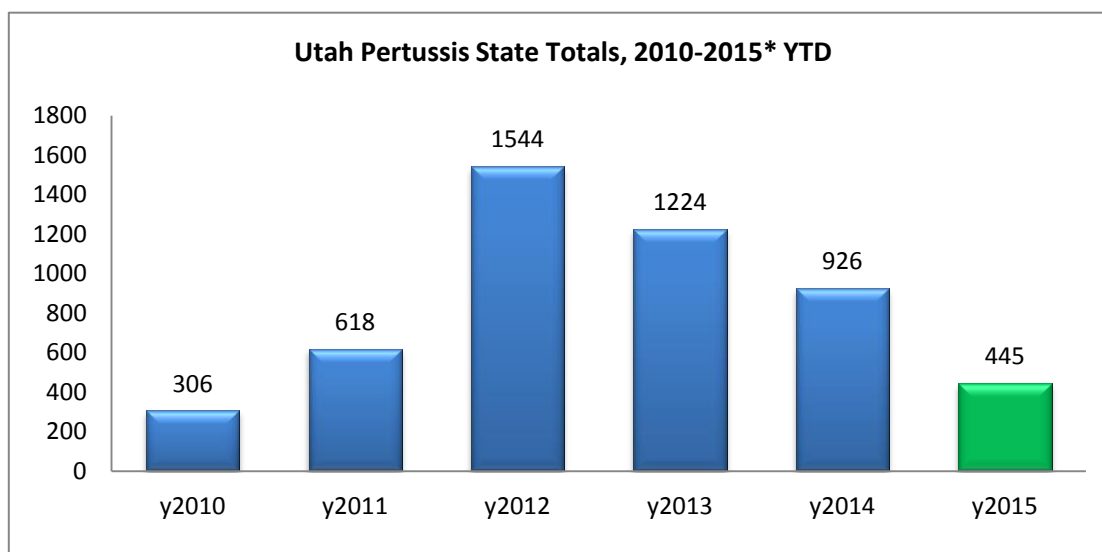
Grade	Age (years)	2015 Cases	2013 Population	Rate*
Preschool	3-4	186	103,602	215.6
Kindergarten	5	13	53,177	29.4
1	6	11	52,869	25.0
2	7	6	52,063	13.8
3	8	17	51,809	39.4
4	9	11	51,080	25.9
5	10	14	50,567	33.2
6	11	14	48,961	34.3
7	12	11	49,008	26.9
8	13	12	48,884	29.5
9	14	13	47,180	33.1
10	15	32	46,321	82.9
11	16	22	45,914	57.5
12	17	20	44,889	53.5

* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

Utah Case Counts of Pertussis, 2008-2014



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward.

* 2015 data includes pertussis cases reported year to date. 2010-2014 data reflects cases reported during the entire calendar year for each year.

Incidence of pertussis by Local Health Department, 2015 YTD

Local Health Department	2015 Cases	Rate*
Bear River	4	2.8
Central Utah	10	15.7
Davis County	59	22.0
Salt Lake Valley	123	13.7
San Juan County	14	112.3
Southeast Utah	1	2.9
Southwest Utah	10	5.6
Summit County	42	131.0
Tooele County	3	5.9
TriCounty	2	4.2
Utah County	82	17.8
Wasatch County	6	27.2
Weber-Morgan	45	21.7

* Rate is calculated per 100,000 person-years using 2013 Utah population estimates

